

CURRICULUM VITAE

Personal:

Name: Eiksund, Gudmund, Born June 17, 1964, Ørsta, Norwegian Citizen

Present position: Professor in Geotechnical Engineering at NTNU, Trondheim, Norway since 2012

Degrees: 1988 Sivilingeniør (MSc), NTH, 1994 Dr.ing. (PhD), NTH

Experience:

2012 - Professor at NTNU, offshore geotechnical engineering
2005 – 2011 Senior engineer, GeoPartner Marin AS
2002 – 2005 Senior research scientist, SINTEF Technology and Society
Rock and Soil Mechanics, Trondheim, Norway
1994 - 2002: Research Scientist, SINTEF Civil and Environmental Engineering,
Geotechnical Engineering

Experience (selected activities):

Analysis of soil structure interaction during operation for the Draupner E steel jacket platform. Project manager for the design of suction anchors for the semi-submersible platforms at Åsgard B and Kristin. Geotechnical expert during offshore installation of the anchors for the Kristin Semi sub. Member of the expert panel for the Valhall IP platform investigation into cause of piling difficulty. Stability analysis of pipeline supports and design of counterfills for the Ormen Lange pipelines.

Present research activities:

Responsible for research on offshore wind turbine foundations. Supervisor for three PhD students on the offshore wind.

Present PhD students:

- a) Stian Baardsgaard Hansen: *Revision of p-y curves to improve their applicability to monopile foundation.*
- b) Ivan Depina: *Risk and reliability analysis for offshore wind turbine foundations*
- c) Ivana Anusic: *Installation of monopiles for offshore wind turbine foundations*
- e) Joar Tistel: *Bridge Foundations at Large Water depths*
- f) Ana Page: *Development of Integrated Soil Structure Interaction models for Monopile Foundations of Offshore Wind Turbines*

Co-supervisor:

- a) – Kristoffer Scau: *Macro element model for suction caisson foundations for offshore wind turbines*

Selected peer-reviewed International Conference papers:

- G. Eiksund (1993): "Pile analysis, A pile driving formula evaluated on basis of stress wave theory". (In Norwegian) Geoteknikkdagen 1993. (Yearly meeting for the Norwegian society of geotechnical engineers).
- G. Eiksund, G. Svanø (1995): "Creep related subsidence caused by oil and gas extraction". Paper to the fifth international symposium on land subsidence.
- G. Eiksund, S. Nordal (1996): "Dynamic model pile testing with pore pressure measurements". Paper to fifth international conference on application of the stress-wave theory on piles. 1996.
- G. Eiksund (1996): "Numerical Simulation of a High Rate Falling Weight Test on Backfill and Backpack Materials". Explosion Effects in Granular Materials, Workshop Report Norwegian Defence Construction Service, 1996.
- G. Svanø, G. Eiksund, A. Kavli, D. Karunakaran, T.I. Tjelta (1997): "Soil-structure Interaction of the Draupner E bucket foundation during storm conditions". Paper to BOSS'97.
- G. Eiksund, A.L. Berggren, G.Svanø (2001) Stabilisation of a glacifluvial zone in the Oslofjord subsea tunnel with ground freezing. ICSMGE Istanbul 2001
- G.Eiksund, H. Brennodden, G. Paulsen and S. Witsø (2008). Ormen Lange Pipelines – Geotechnical challenges, ISOPE Vancouver 2008. G. Eiksund, T. M. Pedersen (2013) "Initial settlement of rock fills on soft clay". ISOPE Anchorage 2013.
- G. Eiksund, H. Langø, Even Øiseth (2013). "Full scale field tests of uplift resistance of trenched pipes". Journal of Offshore and Polar Engineering. Vol 23. No 4. 2013

- Cai, F., Eiksund, G. (2013) "The influence of clay properties on wind turbine tower". ISOPE-2013, Conference proceedings. Anchorage 2013.
- Depina, Ivan; Le, Thi Minh Hue; Eiksund, Gudmund Reidar; Benz, Thomas. (2013) "Cyclic behaviour of laterally loaded piles in soils with variable properties". ISOPE-2013, Conference proceedings. Anchorage 2013.
- Le, T. M. H., Eiksund, G. R., Strøm, P. J. 2013. "Cyclic behaviour of an overconsolidated marine clay". ISOPE-2013, Conference proceedings. Anchorage 2013.
- G. Eiksund (2014) "Modelling of uplift lateral resistance of offshore pipelines in rock berms" Numerical methods in Geotechnical Engineering June 2014. Pp 1249 – 1254.
- J.Tistel, G. Eiksund, NTNU; J. Hermstad, Kvaerner; A. Bye, C Athanasios, Multiconsult, Norway (2015) "Gravity-Based Structure Foundation Design and Optimization Opportunities" ISOPE Hawaii 2015.
- Depina, I., Eiksund, G.(2015) "Reliability-based design optimization of laterally loaded monopile foundations for offshore wind turbines." ISFOG 2015

Peer-reviewed International Journal papers:

- S.W Perkins, B.R Christopher, E.L Cuello, G.R Eiksund, D.S Schwartz and G. Svanø (2009). "A mechanistic–empirical model for base-reinforced flexible pavements", International Journal of Pavement Engineering Vol. 10, No 2. pp 101-114.
- G. Eiksund, H. Langø, Frode Hove (2013). "Full scale tests of axial friction on pipelines in rock berms," International Journal of Offshore and Polar Engineering. Vol 23. No 1. 2013
- G. Eiksund, H. Langø, Even Øiseth (2013). "Full-scale tests of Uplift Resistance of Trenched Pipes" International Journal of Offshore and Polar Engineering. Vol 23. No 4. 2013
- F. Cai, G. Eiksund (2014) "Anatomy of constitutive models for soil " Numerical methods in Geotechnical Engineering June 2014, pp 1231- 1235.
- Depina, I., Le, T. M H., Eiksund, G., Fenton, G. (2015)" Reliability Analysis by Limit State Sampling." Structural Safety.
- Hanssen, S.B, Eiksund, G., Nordal, S. (2015) "Impact vibration test of monopole foundation model in dry sand" International Journal of Physical Modelling in Geotechnics.